

AMENDMENT

Please add the following new claims:

*A'* ~~20.~~ 20. (New) A method for facilitating the processing of a biopharmaceutical product comprising:

- providing a vessel adapted to receive a medium comprising a biopharmaceutical product therein, said vessel having an interior cavity defined by at least an interior wall of said vessel;
- providing a passage for actively cooling said interior wall using a cooling fluid;
- and
- providing a heat exchange structure within said cavity, said heat exchange structure including an elongated pipe being centrally positioned within said cavity, said elongated pipe having one or more heat transfer members thermally coupled thereto, said elongated pipe defining a passage for actively cooling the one or more heat exchange members using a cooling fluid.

21. The method of claim 20, wherein said elongated pipe is tubular and adapted to be actively cooled using a fluid.

22. The method of claim 20, wherein said one or more of said heat transfer members are fins.

23. The method of claim 22, wherein said one or more of said fins extend radially from said elongated pipe.

24. The method of claim 20, wherein said vessel comprises an open end which is closable by a removeable top, said structure being removeable through said open end of said vessel.

*Sub B2* ~~25. A method of processing a biopharmaceutical product comprising:~~

providing a vessel adapted to receive a medium comprising a biopharmaceutical product therein, said vessel having an interior cavity defined by an interior wall of said vessel and a heat exchange structure within said cavity, said heat exchange structure having an elongated pipe being centrally positioned within said cavity, said elongated pipe having one or more heat transfer members thermally coupled thereto;

placing a medium comprising a biopharmaceutical product within said vessel;

actively cooling said interior wall using a cooling fluid;

actively cooling said heat exchange structure by flowing a fluid through the elongated pipe; and

freezing the medium within said vessel to preserve said biopharmaceutical product.

26. The method of claim 25, wherein said elongated pipe is tubular.

27. The method of claim 25, wherein said one or more of said heat transfer members are fins.

28. The method of claim 27, wherein said one or more of said fins extend radially from said elongated pipe.

29. The method of claim 25, wherein said vessel comprises an open end which is closable by a removeable top, said structure being removeable through said open end of said vessel.